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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/594,121	11/28/2006	Jeffrey Wilson Thornton	1328-35	7360
23117 NIXON & VA	7590 01/19/201 NDERHYE, PC	EXAMINER		
	LEBE ROAD, 11TH F	HEINCER, LIAM J		
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			01/19/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/594,121	THORNTON ET AL.			
		Examiner	Art Unit			
		Liam J. Heincer	1796			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 又	Responsive to communication(s) filed on 12 No.	ovember 2009				
·	Responsive to communication(s) filed on <u>12 November 2009</u> . This action is FINAL . 2b) This action is non-final.					
3)□	· 					
J)الــا	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	closed in accordance with the practice under L	x parte Quayle, 1900 C.D. 11, 40	0.0.210.			
Dispositi	on of Claims					
4)🛛	☑ Claim(s) <u>1,3,4,6-8 and 10-19</u> is/are pending in the application.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
	☐ Claim(s) <u>1,6-8,10,11 and 19</u> is/are allowed.					
	Claim(s) <u>12-18</u> is/are rejected.					
·	Claim(s) <u>72-70</u> is/are rejected. Claim(s) <u>3 and 4</u> is/are objected to.					
·	Claim(s) are subject to restriction and/or	r election requirement				
♥/□	are subject to restriction and of	Giodion roquiroment.				
Applicati	ion Papers					
9)☐ The specification is objected to by the Examiner.						
10)	The drawing(s) filed on is/are: a) acce	epted or b) objected to by the E	Examiner.			
,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
	Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						

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DETAILED ACTION

Claim Objections

Claims 3 and 4 are objected to because of the following informalities: Claim 3 depends from claim 1 and claim 2. Claim 2 has been cancelled. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 16 is rejected under 35 U.S.C. 102(b) as being anticipated by Jetten et al. (WO 00/50621).

Considering Claim 16: Jetten et al. teaches a carbohydrate polymer comprising aldehyde monomers on at least 4% of the monomer units (¶0015) where the aldhyde gropus are present on the primary hydroxyl group/C6 carbon (¶0003). Jetten et al. teaches a food component comprising dietary fiber and the carbohydrate (¶0018).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 12-15, 17, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Loercks et al. (US 2001/0039303) in view of Jetten et al. (WO 00/50621).

Considering Claims 12-15, 16, and 17: Loercks et al. teaches a composition comprising thermoplastic starch (¶0021); a polyester (¶0021), glycerol and water (¶0062). Loercks et al. teaches the composition as being in the form of granules, an article or blown film (Table 1).

Loercks et al. does not teach adding a carbohydrate polymers having aldehyde groups on the C6 carbon. However, Jetten et al. teaches a carbohydrate polymer comprising aldehyde monomers on at least 4% of the monomer units (¶0015) where the aldhyde gropus are present on the primary hydroxyl group/C6 carbon (¶0003). Jetten et al. teaches the carbohydrate as being added to starch compositions (¶0018). Loercks et al. and Jetten et al. are analogous art as they are concerned with the same field of

endeavor, namely starch compositions. It would have been obvious to a person having ordinary skill in the art at the time of invention to have added the carbohydrate of Jetten et al. to the composition of Loercks et al., and the motivation to do so would have been, as Jetten et al. suggests, to improve the viscosity properties of the composition (¶0018).

Loercks et al. does not teach the carbohydrate as being added in the claimed amount. However, differences in concentration generally will not support the patentability of subject matter encompassed by the prior art unless there is evidence indicating such concentration or temperature is critical. See MPEP § 2144.05. It would have been obvious to a person having ordinary skill in the art at the time of invention to have optimized the amount of carbohydrate through routine optimization, and the motivation to do so would have been, as Jetten et al. suggests, to improve the viscosity properties of the composition (¶0018).

Allowable Subject Matter

Claims 1, 6-8, 10, 11, and 19 are allowed.

Claims 3 and 4 would be allowable following correction of the typo as set forth above.

The reasons for allowance are the same as those set forth in the previous action.

Response to Arguments

Applicant's arguments with respect to claims 12-18 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Liam J. Heincer whose telephone number is 571-270-3297. The examiner can normally be reached on Monday thru Friday 7:30 to 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on 571-272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark Eashoo/ Supervisory Patent Examiner, Art Unit 1796

LJH December 16, 2009